
Name of Organization: Little Traverse Bay Bands of Odawa Indians

Type of Organization: Tribal Organization

Contact Information: Ms. Taimi Hoag
Environmental
P.O. Box 246 915 Emmet St.
Petoskey MI 49770

Phone: (231) 439 - 5376 **Extension:**

Fax: (231) 348 - 2589

E-Mail: taimi@freeway.net

Project Title: Tribal Plant Restoration and Management Project

Project Category: Habitat (Ecological) Protection and Rest

Rank by Organization (if applicable): 0

Total Funding Requested (\$): 67,803 **Project Duration:** 2 Years

Abstract:

There are many vegetative species that have cultural and medicinal significance to the members of the Little Traverse Bay Bands of Odawa Indians. Due to encroaching development, the abundance of some of these species has decreased to the point of concern to the tribe. This project will conduct an inventory of the significant species, determine which species are threatened, increase availability of selected species through propagation of new patches of selected species and establish a management plan for critical species.

Geographic Areas Affected by the Project

States:

<input type="checkbox"/> Illinois	<input type="checkbox"/> New York
<input type="checkbox"/> Indiana	<input type="checkbox"/> Pennsylvania
<input checked="" type="checkbox"/> Michigan	<input type="checkbox"/> Wisconsin
<input type="checkbox"/> Minnesota	<input type="checkbox"/> Ohio

Lakes:

<input type="checkbox"/> Superior	<input type="checkbox"/> Erie
<input type="checkbox"/> Huron	<input type="checkbox"/> Ontario
<input checked="" type="checkbox"/> Michigan	<input type="checkbox"/> All Lakes

Geographic Initiatives:

<input type="checkbox"/> Greater Chicago	<input type="checkbox"/> NE Ohio	<input type="checkbox"/> NW Indiana	<input type="checkbox"/> SE Michigan	<input type="checkbox"/> Lake St. Clair
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Primary Affected Area of Concern:

Other Affected Areas of Concern:

For Habitat Projects Only:

Primary Affected Biodiversity Investment Area:

Other Affected Biodiversity Investment Areas: Northern Lacustrine-Influenced Lower Michigan Ecoregion

Problem Statement:

The members of the Little Traverse Bay Bands of Odawa Indians rely on various vegetative species for ceremonial, medicinal, diet and craft purposes. These species are being threatened by the significant increase in development within the reservation boundaries. Condominiums and townhouses have been built along most of the available Lake Michigan shoreline resulting in increased development pressure on the inland areas of the reservation. Also, because the area is a popular resort locale, there is a 300% increase in population during the summer months. The escalating development and rise in population density will continue to have a negative impact on these valuable resources. Tribal members have voiced their concerns regarding previously abundant and healthy plants, bushes and trees that no longer exist. This project seeks to address the current decline in health and numbers of these species so they will continue to grow in their native habitat and always be available to tribal members. This project will affect portions of a 336 square mile area with the northern and western borders of this area being located along approximately 110 miles of the Lake Michigan shoreline. Preservation and enhancement of native plants will serve to preserve and enhance this area of the Lake Michigan ecoregion.

Proposed Work Outcome:

Field surveys will be conducted to update previous (limited) surveys and to locate additional patches and stands of significant species. Abundance and health will be assessed and entered into a database and locations will be mapped. Tribal members will assist with location and identification of species. The Rose Lake Plant Materials Center will assist on a contractual basis with location, identification and health assessment of the various species.

From the initial inventory and health assessment, it will be determined which species are in the lowest abundance and/or in declining health. Cuttings and seeds of these species will be transported to the Rose Lake Plant Materials Center in East Lansing, Michigan for further propagation. If time and funds permit, cuttings and seeds from those species in high abundance and good health will also be moved to the Plant Materials Center for further propagation.

The Rose Lake Plant Materials Center will clean, store and handle the materials received of the designated species. The PMC will work with the tribe to determine the amount of plant materials to be propagated and increased for establishment back into the areas of concern. Literature searches will be done on those species where little information is known about propagation of the species. The PMC's greenhouse facility as well as propagation beds will be used to increase the plant materials.

The new progeny will then be introduced back into their natural habitat with some of the progeny being planted in the exact same areas that they originated from while others will be used to initiate new patches. The PMC will assist with the development of monitoring criteria/schedules to determine the success/failure of reestablishment techniques. The PMC will

also assist with the development of planting plans and a maintenance plan.

A portion of the new patches will be placed in areas that can receive intensive monitoring and therefore be subject to an initial trial management plan. Harvesting of these managed patches will be on a limited basis to ensure continued growth of these patches.

A final report of the completed activities will be produced.

Project Milestones:**Dates:**

QAPP	10/2000
Begin training in vegetation ID	10/2000
Tribal volunteers determined	02/2001
Inventory/assessment/species gathering	09/2001
Propagation of new species	04/2002
Reintroduction of new species	06/2002
Monitoring of new patches/final report	09/2002
Project End	09/2002

☐ Project Addresses Environmental Justice

If So, Description of How:

☒ Project Addresses Education/Outreach

If So, Description of How:

Tribal members will be kept informed of activities and results through the tribal newsletter. Tribal members, including youth will be encouraged to participate in the project through announcements in the tribal newsletter.

The information gathered from this project will also be shared with the Tribal Health Department, the Tribal Archives Department, the Tribal Natural Resources Department and any other interested tribal department.

Evaluations of the results will be provided to interested parties in the Great Lakes area.

Project Budget:

	Federal Share Requested (\$)	Applicant's Share (\$)
Personnel:	17,600	3,750
Fringe:	5,210	1,110
Travel:	5,000	0
Equipment:	2,200	0
Supplies:	1,000	0
Contracts:	19,000	0
Construction:	0	0
Other:	2,000	0
Total Direct Costs:	52,010	4,860
Indirect Costs:	15,793	0
Total:	67,803	4,860
Projected Income:	0	0

Funding by Other Organizations (Names, Amounts, Description of Commitments):

7% of the entire project costs (\$4,860) will be provided by the part-time availability of one staff member from the Tribal Natural Resources Department.

One other tribal staff member from the Environmental Department will also be available on a part-time basis to assist with this project but the salary cannot be counted as a match.

Description of Collaboration/Community Based Support:

LTBB will collaborate on this project with the Rose Lake Plant Materials Center in E. Lansing, Michigan. The PMC is fully supportive of this project.

The LTBB Tribal Council supports this project as do those tribal members that are aware of the project idea. There will be ongoing collaboration with tribal members because success of this project is dependent on the knowledge of a number of tribal members.

Tip of the Mitt Watershed Council also supports the project idea.